THE TECH

VOL. XXIX. NO. 129.

BOSTON, MASS., THURSDAY, MARCH 31, 1910

PRICE ONE CENT

SOCIETY OF ARTS HEARS TALK ON GYROSCOPES

Most Interesting And Practical Discourse

Last evening the Society of Arts was addressed by Mr. Elmer A. Sperry of New York, on the topic "Gyroscopes." The lecture was well attended and proved to be one of the most interesting as well as one of the most instructive discourses given before the Society this year. Mr. Sperry did not treat his subject from a mathematical standpoint but rather from the practical stand-point and he illustrated all important principles of which he spoke with mod-

The gyroscopic phenomenon is really a simple one and one that is readily understood if the subject is carefully approached. To begin with, the earth's action is gyroscopic, and the phenomenon is a quite natural one. The gyrosenon is a quite natural one. The gyroscopic action is caused by revolving or rotating a disk about some axis. When one attempts to displace the rotating disk from its original position, a reaction takes place in a plane normal to the force which is causing the displacement of the disk.

Last summer Mr. Sperry investigated many of the actions of gyroscopes in general and besides interviewed prac-tically all of the noted men who are experimenting with gyroscopes. How-ever, many men whom he met showed a great lack of understanding of the fun-damental principles of gyroscopic ac-tion. One Englishman wrote that gyroscopic phenomena were a network of negations from the natural. Another said that it worked at cross-purposes, and there were many similar erroneous views shown to be held by men who ought to have known better.

Many uses for gyroscopes have been though of, but probably the most important once are its use in monoral.

portant ones are its use in monorail trains and for steadying ships and aero-planes. The action of the boomerang and of the wheels on trains has lately been shown to be largely gyroscopic in its nature and for this reason the outer rail on railroad curves must be raised raif on raiffoad curves must be raised higher than it wold need to be for simple centrifugal forces. Another bractical and natural gyroscopic action is the one used by a cat, which always lands on its feet. This is easily explained because the cat has an inborn decirate draw in its feet in a certain desire to draw in its feet in a certain manner when it is falling and this action causes the cat to land in an upright position. This can partially be shown experimentally by placing a boy on a chair which is free to revolve about an axis which is perpendicular to the seat of the chair. Then if the boy holds a weight in one of his hands, extends his arm full length sidewise and then quickly toward him, the chair will revolve to either one or the other sides according to which arm he is using.

the engineering signincance mous power of gyroscopes was first no-ticed on one of our torpedo bats during target work. The torpedo used was one whose ring made some 16,000 revolutions. Before bringing the ring up to this velocity, the torpedo was sighted on the target and when the ring reached its maximum velocity it was noticed that the ship had swung through quite an angle. The officer ordered the men to again aim the torpedo, but in endeavoring to do so it was seen that when they moved the torpedo, the ship swung through another angle. Thus they really moved the ship around in endeavoring to move the torpedo.

(Continued from page 3.)

PROF. TALBOT GIVES DINNER TO CHEMISTS

Men Gathered in The Union

What's the matter with Talbot. He's alright!

He's so good to me and you He will see that we get through What's the matter with Talbot?

He's alright! So sang the chemists and chemical engineers who enjoyed Dr. Talbot's hospitality at the Union last night. "Enjoyed" is the proper word, because not only was the dinner served most excellent, but the speakers of the evening were of equal excellence, and over all that peculiar family spirit, so char-acteristic of the Chemistry Department, reigned.

Cards were distributed to the men. on which they wrote their names, the kind of work they preferred, the local-ity they prefered, and their permanent address. Prof. Talbot explained that in reference to obtaining positions, it was not only the registrar's records counted, but quite as much the general impression which the man had made during his connection with the department. ment. Dr. Talbot assured the men that there were pleuty of chances for chemists and engineers, and that no man need be discouraged if he did not get a \$10.000 job immediately. He explained that the Institute was glad to belp men into positions, but that like-wise the men owed the Institute certain obligations. It is the duty of a student to let the department know just as soon as he is placed in a posi-

tion, whether permanent or not.

The young men entering the profes-The young men entering the procession also twee a duty to his professional societies. Membership in these keeps him supplied with the latest literature, but it also helps to advance the science in which he is engaged.

Dr. Talbot made an important point of the fact that loyalty is a rather rare virtue in these days. He said, Be loyal to yourself and to your employer. Make up your mind to always earn more than your pay. The best thing you can ask for is the chance to do the best there is in you and an em-Prof. Prescott followed Dr. Talbot.

He spoke of the openings in chemical biology, in water and sewage work, in milk work, and in public service in

(Continued from page 2.)

STORY OF INQUISITION

The Catholic Club convened last evening to listen to an explanation of the Inquisition by Rev. J. M. Patterson, professor at Brighton Seminary. At the beginning of the thirteenth century, Catholicism was universal. At this time, however, a band of Orientals, clinging to a different philosophy, settled in southern France and brought upon themselves the disfavor of the en-They were regarded as tire country. virulent anarchists are today. To exterminate this new religion, persuasion and oratory were found ineffective and physical force was resorted to "to prevent spiritual suicide." The state took up the work and, in its courts, resorted to torture and confiscation of property in order to insure the desired testi-mony of the witnesses.

After Rev. Patterson's lecture, arrangements for the coming dance were completed. The dance is to be held April 4 in Copley Hall.

SOPHOMORE MINERS ENTERTAINED LAST NIGHT

Mr. Elmer A. Sperry Gives A Excellent Speakers Address 57 Prof. Richards Gives Exhibition Dr. A. P. Fitch Discusses Of Glass-Blowing After Supper

Thirty of the sophomore miners had reason to congratulate themselves on their choice of course last night at the occasion of the reception and supper given them by Professor Richards and his wife. From the time the door closed behind the first comer until the last man had left there was "something do-

ing" all the time.

After the preliminary greetings and introductions the fellows examined the extensive collections of minerals and curios or tried their skill on the puzzles which they found in the parlor.

Soon supper was served and between conversation a most excellent and bountiful meal was enjoyed. Second plates of ice cream were the rule rather than the exception.

After supper the company was treated to an exhibition of Prof. Richards' skill in glass-blowing and if there was any one thing more than another which could be picked out as "the most inter-esting," it was this.

The host began by blowing a small bulb in a piece of small glass-tubing. When the glass had assumed the shape of a perfect sphere, he directed the blast of a perfect sphere, he directed the blast lamp flame against the bottom, twirling it rapidly the while, then blew gently and he showed the fellows a little flat-bottomed flask. After annealing this by heating in the flame and allowing it to cool he made two more of larger size.

These having come out successfully Prof. Richards then announced that he would make a water-hammer. He

would make a water-hammer. He started by blowing a rather large bulb with a long neck the end of which he drew to a fine tube. Next he partially filled this with water by heating it and allowing it to cool with the small open end dipped in water. Then he boiled this water thereby expelling the air and again allowing it to cool under water. This time the high vacuum produced by the condensation of the steam liberated the dissolved air in the water making a beautiful froth in the ascending column of water. When the bulb was filled with water he allowed it to boil for seven minutes in order to drive out all air before sealing it. The result was in doubt until the water had partially cooled when the distinct clink could be heard on turning it upside down. This noise is due to the fact that there is no air cushion between the water and the glass when they meet.
While waiting for the water to boil in

the water-hammer Prof. Richards "blew some bubbles." Not the soap-and-water kind but glass bubbles, almost as thin and no less beautiful. First he formed a little knob at the end of the tube to feed the bubble, then softened the glass near the end and blew. A great sausage shaped bubble coiled and in the air, unany conapsing with a sharp report. When these bub-bles explode just right the thin film of glass splits into long flexible ribbons.

After the exhibition the crowd drew etters for the results of the glass-blowing. H. O. Maxwell got the smallest flash while the second was secured by S. R. Robertson. "Robbie" gallantly gave his prize to Mrs. Burton. Goodwin got the water-hammer.

Several members of the faculty and instructing staff were present with their wives and helped Prof. and Mrs. Richards in making the evening a grand suc-

It was good to be a second-year Course III. man last night.

CHRIST THE TRUEST EXPRESSION OF GOD

Clause Of T. C. A. Membership Pledge

The fact that the T. C. A. is daily gaining in both membership and influence was well demonstrated last night at their meeting. More were there than have attended before, except at the membership meeting, and it was even necessary to place a number of extra plates at the table. During the dinner an innovation was introduced by Mr. Mason who sat down at the piano and started in on the "Stein Song.' This was followed by others between the courses, and helped to enliven things and make the meeting more enjoyable.

After the dinner, Mr. Mason intro-duced as the speaker, D. A. P. Fitch of Cambridge. Dr. Fitch discussed the second clause of the membership pledge, "Finding in Jesus Christ the truest expression of God's will and character." He limited his speecn to a very few minutes, but he fully covered the subject, and clearly explained his opinion of Christ's purpose and life.

He said in part that although our thoughts of God's greatness, power, and mercy have come to us in hundreds of ways, yet these are traceable to Jesus himself as the originator. Jesus ex-presses by his life not the power of God, but His love and helpfulness to all human creatures. He shows the sympathetic side of God. Although carist's life is the ideal that we look up to, yet it is impossible that any of us shall ever attain it because we can never be quite sinless. Jesus is the true expression of God.

Our ideas of God are all expressed by him, and here we get no further be-cause we can never know from where Jesus obtained his ideas and expres-

Dr. Fitch concluded his remarks by answering a few questions relating to his talk. Dr. Fitch is a strong and forceful speaker, and all those who were present certainly derived many good thoughts from his short but impressive

At the meeting next week Dean Burton will talk, and it is expected that every one will attend if possible.

COLLEGE ATHLETIC NOTES.

If everything goes well with Sam Felton, the Harvard freshman pitcher, the Crimson should have a dependable twirler for the next three years.

The accident to Steve Philbin, Yale's baseball captain, is regretted by all collegians, as it undoubtedly robs him of a chance of going out of college in June with one of the greatest records ever made by an Eli.

The fencers of the naval and army academies proved that they were again superior to the collegians. There is one consolation, however, for the col-lege men; the individual champion

CALENDAR.

Thursday, March 31. 4.00—Cross-country Practice. Field. 4.15—1910 Class Day Marshalls Ballots due.

Friday, April 1. 2.30—1913 Baseball vs. E. H. S.. Tech Field.

> Saturday, April 2. Inter Course Cross Country Race.

THE TECH

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BOSTON, MASS., MARCH 31, 1910.

INSTITUTE COMMITTEE

Twelve members of the Institute Committee attended a meeting of that body yesterday afternoon and, among other things, discussed the advisability of establishing an Honorary Society at the Institute. The executive committee, in its report of investigation of the matter, described the method of opera-tion of the Honorary Society existing at Yale. The members of this Society are elected by the Faculty and are divided into two lists, sure and doubtful. The sure list comprises those members whose brilliancies are evident to every-body. The doubtful members, however, include those whom the Faculty consider sufficiently bright to be admitted to the Society, but whose smartness and originality is not known to all the students or Faculty. Prejudice against any nominee for membership upon the parr of one of the Faculty is entirely eliminated, since in objecting to a candidate, specific and detailed reasons must be offered for disqualification, and the remaining Faculty will heed none but the sanest reasons for objection. The committee voted unanimously in favor of such an installation and the de-cision of the matter now rests upon the Faculty.

It was decided to call the roll for attendance of all members entitled to be present at the committee meetings and also to call the roll for votes on any matter at the request of five members. The executive committee was appointed to further its investigation into the proposed honor system since insufficient time had elapsed since its appointment for a favorable report at this meeting.

The smoker to the Faculty to occur Friday, April 8, will take the place of the regular Friday evening entertainment. The Institute Committee is active in securing entertainment. The Glee Club will render a program and an attempt will be made to obtain the services of the participants in the chemists' show, to take place the night before.

Is an honor system a good thing for the Institute? The Tech is going to start a thorough research of the question by a very concrete test.

It has been found impossible to keep the boy in Engineering A between one and two, so hereafter a large basket will be found there with plenty of copies. Leave your pennies in the basket so that others will be able to make change.

A first call for the coupons for the free copy of Technique is hereby issued. Leave your coupons in a sealed envelope with your name enclosed at the Cage before 1 P. M. Saturday. A list of the relative standing will be posted as soon after as possible.

DINNER TO CHEMISTS

(Continued from page 1.) general. He characterized Biology as a new and broad science in which there is plenty of room for organic, physical, and food chemistry. Prof. Prescott paid tribute to the unselfishness of Dr. Sedgwick and held him up as an example of what a man accomplishes through unselfish devotion to the advancement of mankind.

Following Prof. Prescott, Dr. Noyes spoke on the subject of research and educational work. He told of the discoveries of technical importance made by Dr. Wilhelm Ostwald through his knowledge of theoretical chemistry. He pointed out as significant, the fact that Dr. Ostwald's technical discoveries and his book on philosophy appeared in the same year. Dr. Noyes stated that the Institute was fortunate in possessing a fair amount of funds for research work, and he urged that all men who could do so and who were inclined that way, would come back to the Institute for another year. He further stated that not enough men went into teaching, considering the great amount of personal satisfaction obtainable from this kind of work.

Mr. Everett Morss '85, a member of the Corporation, spoke on the subject of "A Tech Man's Duty to the Community." He made the very significant statement that too many men come to Tech with the most narrow ideas. They regard the Institute as a trade-school and not as an Institution of higher education. The real theory of the Institute is that technical training, as well as the humanities, will give a man higher education. He pointed out that the men, in availing themselves of the opportunities of the Institue, to a certain extent accepted the charity of society, and that it was their duty to repay this, both to the Institute and to society.

Mr. Jasper Whiting, '89, pointed out the most direct and quickest roads to the hospital. These are: 1. Self-sufficiency and undue independence. 2. Not keeping up-to-date. 3. Lack of "sand." "But the hospital is not such a bad place after all," said Mr. Whiting, "ir you get in you will come out sronger and better than before."

Mr. H. S. Duckworth, '94, made the point that a man must exercise diplomacy and must try to get along with the men with whom he works. Further, he stated, that one of the requisites to success was for a man to be able to answer the question placed before him in the fewest number of words with directness and celerity.

Prof. F. C. Park stated that the keynote to success was just "hard-work." He advised the men to aim high, to persist, and to make their life-work something which would bring personal satisfaction as well as material gain.

In conclusion, Dr. Talbot advised the men to always remember that whatever they went into was unfinished, and that it was their job to push it ahead. He wished the fifty-seven men assembled all the good things possible, and again urged them to keep their spirit of hard work, and to remember the Institute by writing to the department after graduation.

Newport, R. I., March 31.—As an evample of the great improvement in the deportment of enlisted men in the navy, officials of the naval training station here point to a record-breaking episode in connection with shore leave granted to 800 seamen apprentices yesterday. The apprentices were given shore leave at noon and before 11 o'clock at night all had returned to the station, and only one showed signs of over-indulgence in liquor.

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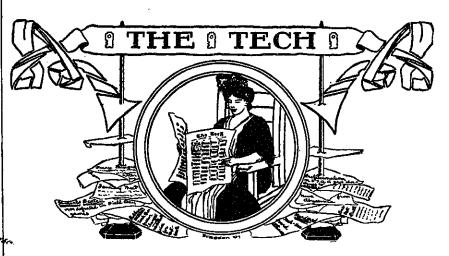
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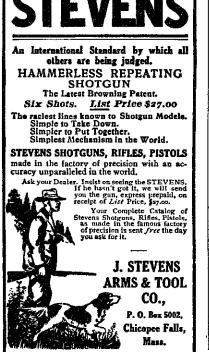
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GENERAL NEWS

TELEGRAPH NEWS OF THE MORNING.

Washington, March 31.—Forecast for Boston and vicinity. Thursday unsettled, probably with showers. Light variable winds, becoming southwesterly.

Mayor Fitzgerald and a large number of representatives of improvement and business associations in the metropolitan district appeared before the legislative committee on metropolitan affairs in favor of the electrification of steam railroads within the metropolitan district. Compulsory electrification for the the present was opposed by the railroad representatives on the ground of the enormous expense it would involve.

New York, March 31.—France will probably be selected as the place for holding the international aviation contest for 1910, the date of which has been set for Oct. 22 by the board of governors of the Aero Club of America.

Washington, Mar. 30—The New haven road has filed with the Inter-state Commerce Commission schedules of increases in its passenger rates. These advances are due to the increases in wages made recently to the company's employees.

Washington, March 31—Protests by 40 G. A. R. posts against the acceptance by Congress of the statue of Robert E. Lee for a place in Statuary Hall were presented to the Senate yesterday by Senator Lodge of Massachusetts.

22 HUNTINGTON AVENUE

TALK ON GYROSCOPES

(Continued from page 1.)

There are at present many men working and experimenting with gyroscopes and among the most prominent of these is the German gentleman, Dr. Otto Schlick. He has carried on many experiments using gyroscopes to steady ships and he has had most satisfactory results. The German government allowed him to use for his experiment a boat some 125 feet long and which was notorious because of its awful rolling in rough water. But with Mr. Schlick's gyroscope in position and by causing precession to take place the ship was almost instantly righted and kept in an upright position. Mr. Schlick has also had the backing of the Hamburg-American line and has made many important. ican line and has made many important experiments on their ships.

The use of the gyroscope in the monorall railroad is a necessity and its use on shipboard will elliminate all rocking from side to side of the ship, at the same time the vessel will not be caused

to ship seas.

Mr. Sperry showed some very interesting slides and also a type of gyroscope used by himself to steady ships.



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NOTICES

FIRST YEAR.

The gymnasium exercises in Physical Training will close this term on Thursday, April 14th. All deficiences must be made up within the next three

During the last week of exercises as signments will be made by Mr. Kanaly for physical measurements to be plotted

on the charts.

Award of Cabot Medals, based on these reports, will be made by the Committee before the end of the term.
ALFRED E. BURTON,

Chairman Faculty Committee on Physical Training.

FIRST YEAR.

SHADES AND SHADOWS. March 24, 1910. Exercises in this course will be held

on Mondays, 2-3 and Fridays, 12-1, in Room 40A Pierce Building, beginning Monday, April 4, except on May 9, when the Monday exercise will be transferred to Wednesday; May 11, at

Students are requested to bring to the first exercise T-square, 45 degree triangle, scale, etc.; paper will be fur-nished. WALTER HUMPHREYS. Registrar.

By vote of the Faculty, the exercises of the Institute will be suspended on Friday, Saturday, Monday and Tuesday April 15th, 16th, 18th and 19th, 1910. A. L. MERRILL, Secretary.

Fourth year and graduate students, intending to make application for Graduate Scholarship Aid for the year 1910-11, should file their applications with the Secretary of the Faculty not later than April first.

MILITARY SCIENCE.

All students having a lecture in Mil. Science on Saturday, will report then at the South Armory for Gallery Practice instead of reporting in 25 Lowell

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The Equal Suffrage Association Boston University extends a cordial invitation to the student body of the Institute of Technology o be present at a reading of the English comedy, "How the Vote was won," by Miss Fola La Follette, on Friday, April 1, 1910, at 4.15 P. M. In Jacob Sleeper Hall, cor. Exerer and Boylston Sts.

Ballots have been mailed to those members of the class who have paid their dues in full, for the election of Class Day Marshals. Ballots will be received at the Cage until 4.15 P. M., Thursday, March 31, 1910.

1912.

Sophomore baseball practice at Tech Field every Monday, Wednesday and Saturday until further notice, from 3 to 6 P. M.

1913.

All men who expect to try for freshman outdoor track, report from now on at Tech Field for practice.

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